Chicago Safe Routes to High School (SRHS)

CHICAGO DEPARTMENT OF TRANSPORTATION

Lane Tech High School
Recommended Improvements

March 20, 2014

Presentation Outline

- Goals
- Related Programs
- Project Location/Area
- Existing Conditions
- Improvement Types
- Proposed Plan
- Project Schedule
- Next Steps

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Chicago Safe Routes to High School

Goals

- Promote walking and biking to school
- Increase safety for school children
- Raise safety awareness among drivers
- Improve pedestrian, bicycle and traffic designs
- Decrease vehicular speed
- Engage the community in support of pedestrian safety
- Use engineering, education, and enforcement

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Related Programs

- CDOT
  - Chicago Pedestrian Plan
  - Chicago Streets for Cycling
  - Chicago Forward Agenda
  - Complete Streets Design Guidelines
  - Child Safety Zones
  - Walk to Transit
  - Aldermanic Menu Program
  - Sidewalk-RCMA Program - ADA ramps
  - Traffic Signal Program
  - Arterial Street Resurfacing
  - Streetscapes
- IDOT
  - Congest Mitigation and Air Quality (CMAQ) Improvement Funding

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Streets for Cycling 2020

Streets for Cycling Plan 2020
Bikeway Network

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City of Chicago - Rahm Emanuel, Mayor
Department of Transportation - Gabe Klein, Commissioner

Legend

- Neighborhood Bike Route (310 Miles)

  Shorter routes that utilize neighborhood streets to connect Crosstown Bikeways and provide access to local destinations, such as parks, schools, transit, and neighborhood retail, as well as residential areas. Many of these streets are already conducive to bicycling so the amount of new infrastructure required will vary from block to block.

- Crosstown Bike Route (275 Miles)

  Long, continuous routes on commercial streets that connect neighborhoods, major destinations and local bikeways. The majority of the protected bike lanes in Chicago will be located along Crosstown Bike Routes.

- Spoke Route (60 Miles)

  Chicago's most direct routes in and out of the downtown area for bicyclists. These streets will be reimagined over the next eight years to provide bicyclists with the safest, quickest and most comfortable accommodations possible.

- Existing Bike Lane or Marked Shared Lane
- Existing Off-Street Trail
- Proposed Off-Street Trail
- Open Space/Cemetery
- College Campus/School Grounds

The City of Chicago does not maintain jurisdiction over several streets identified in this plan.
All locations are subject to change until final review and approval from the Illinois Department of Transportation and the Cook County Highway Department.

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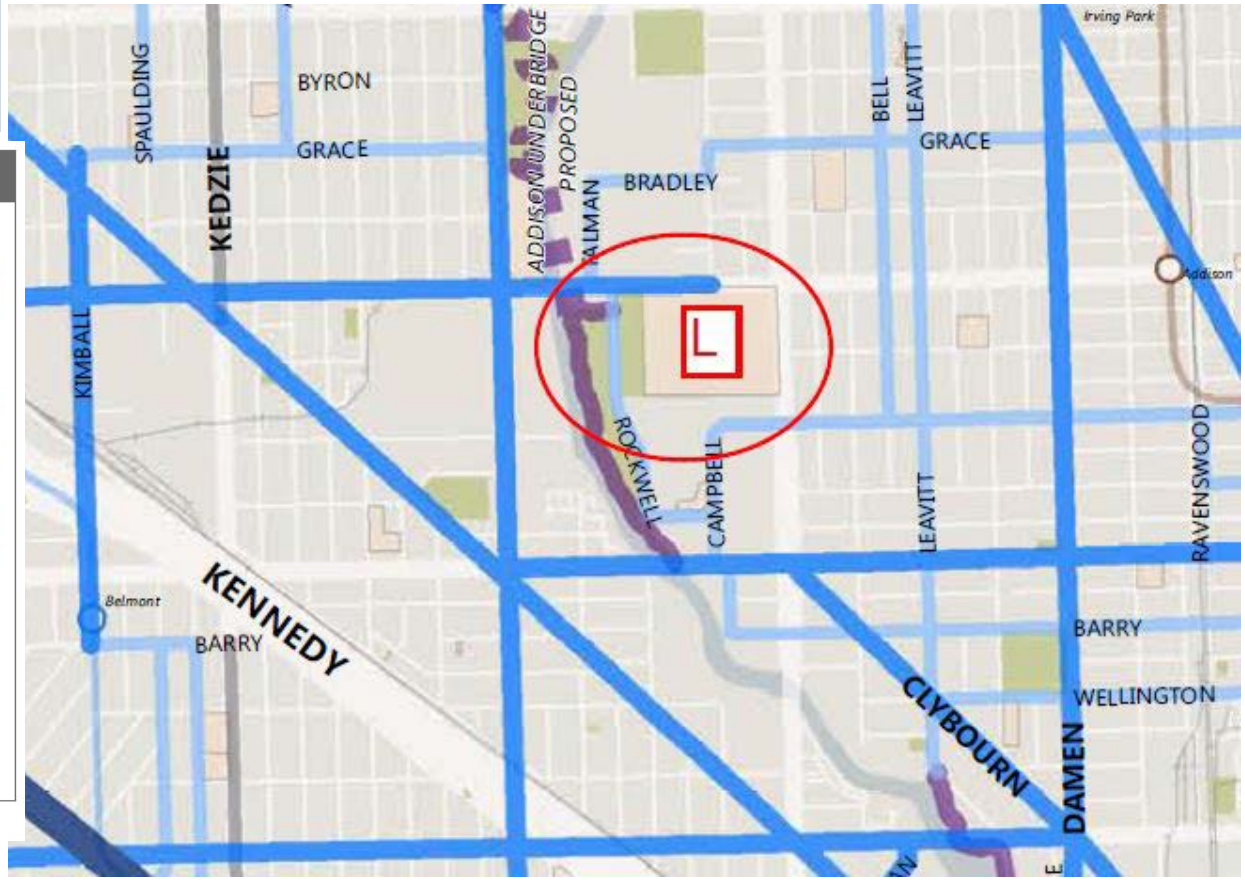
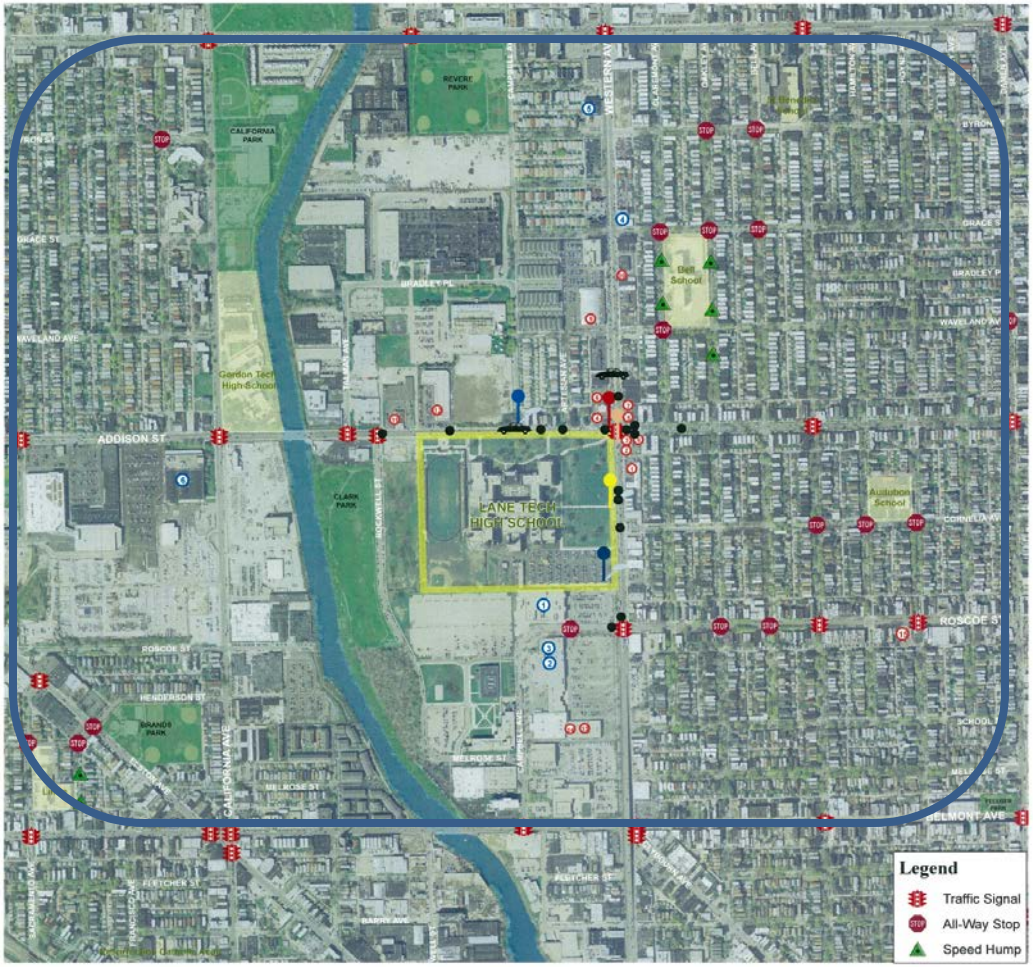


Project Area

- Evaluated at ½ mile distance for pedestrian walking considerations
- Evaluated at 1 mile distance for biking considerations
- Try to improve safety especially on Arterial and Collector Streets



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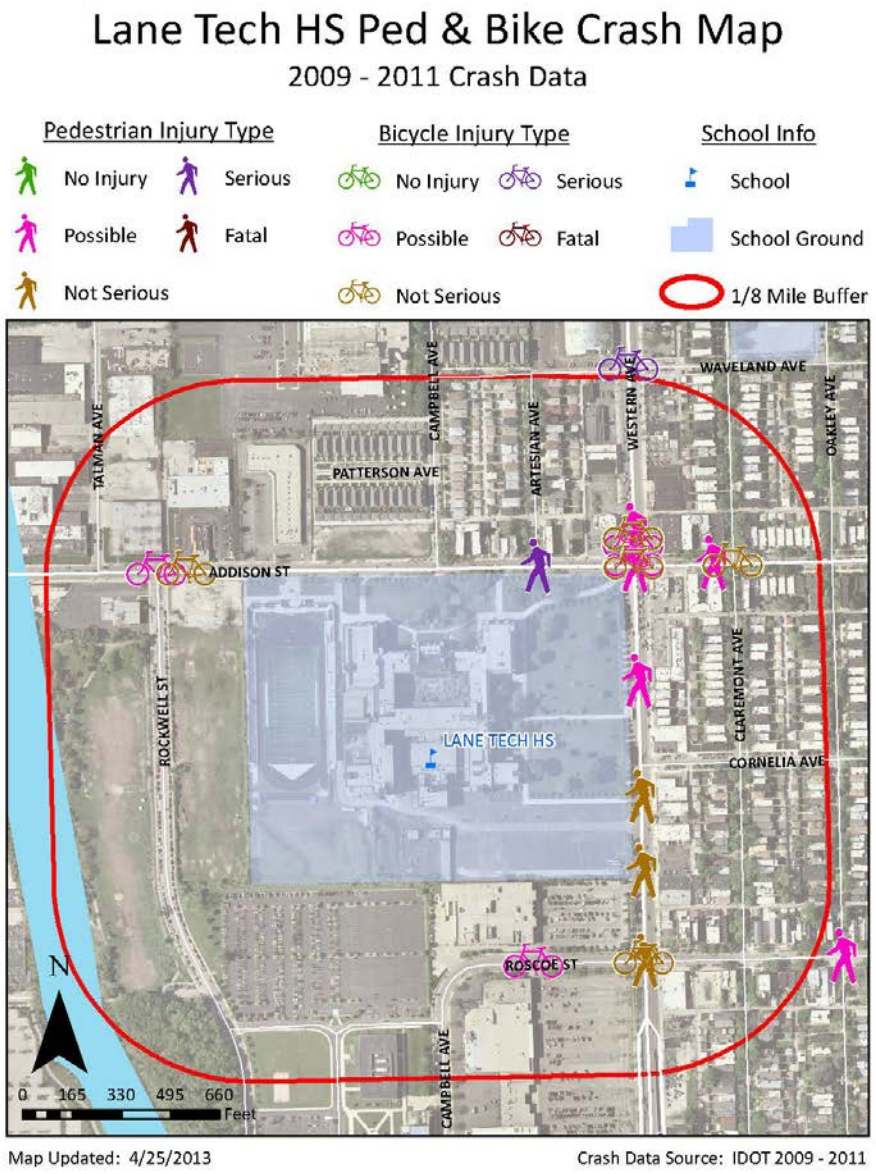
Background Selection

- CDOT
  - 10 high schools and elementary schools selected around the city
  - Amongst the schools that have participated in Safe Routes Ambassadors program, Lane Tech had significantly more crashes than the other schools.



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Existing Conditions

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Existing Conditions

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Improvement Types

Pedestrian Realm:

- Crosswalk improvements
- Sidewalk Improvements
- Bicycle Racks
- ADA Ramps (at selected locations)

Traffic Realm:

- Pedestrian Crossing Safety
- Traffic Signal Improvements
  - Count-Down Pedestrian Heads
- Improved Signage
- Updated Pavement Markings

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Traffic Signal Improvements

- Countdown Signals
  - 25% Injury Crash Reduction Factor
  - Discourages crossing without time for safe crossing.
- At Addison and Western
- At Western and Roscoe

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ADA Ramps

- At Addison and Western
- At Addison and Talman

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Chicago Safe Routes to High School

Crosswalk Improvements

Typical crosswalk

High Visibility crosswalk

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Chicago Safe Routes to High School

Improved Signage

S1-1

W16-9P

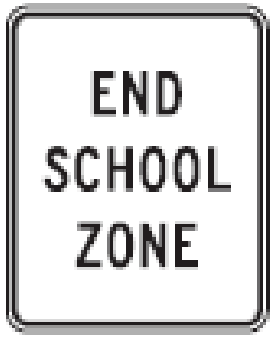
S1-1

W16-7P

School Speed Limit Assembly

S4-3P

R2-1



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Chicago Safe Routes to High School

Pavement Markings

- Define Crosswalks and Stop Bars
- Increase Visibility
- Identify Enforcement Zone
- Reduce Parking Confusion
- Mark “Safety Zone”
- Encourage motorist to slow and watch for children.

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Bicycle Racks

- 2 typical bike rack proposed on School Grounds
  - 1 pad of racks at northwest sidewalk near building and stadium
  - 1 pad of racks on south side of school near parking lot

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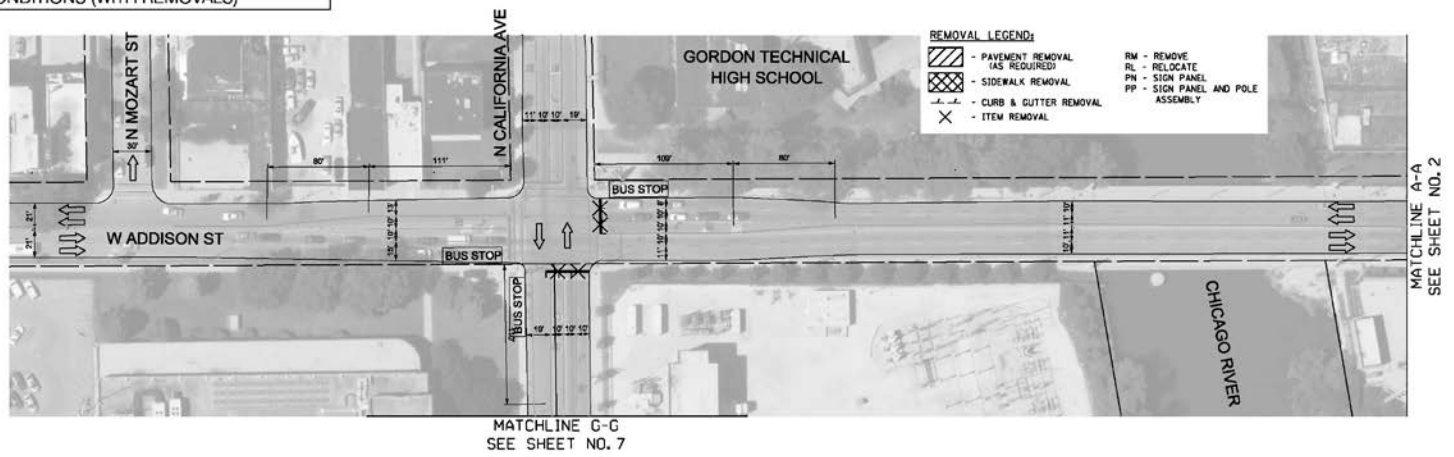
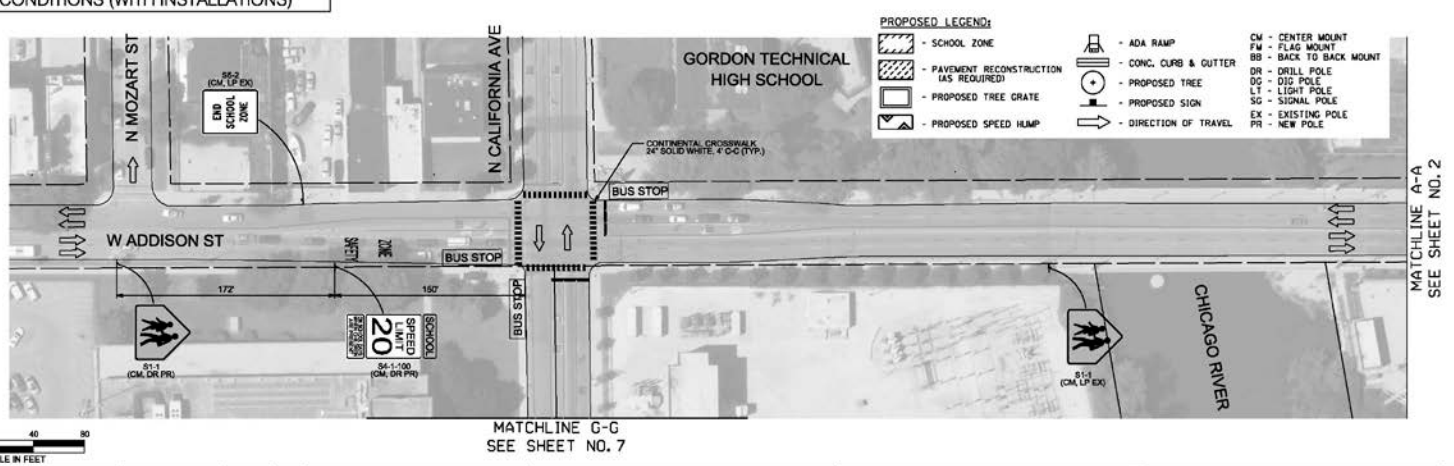
EXISTING CONDITIONS (WITH REMOVALS)



PROPOSED CONDITIONS (WITH INSTALLATIONS)



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CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF PROJECT DEVELOPMENT
SAFE ROUTES TO HIGH SCHOOL

SAFE ROUTES TO SCHOOL
SAFE ROUTES TO HIGH SCHOOL

DESIGN PLAN

LANE TECHNICAL
HIGH SCHOOL
RECOMMENDED IMPROVEMENTS

SCALE: 1" = 40' | DWG. 41 OF 85

SHEET NO.
L-1

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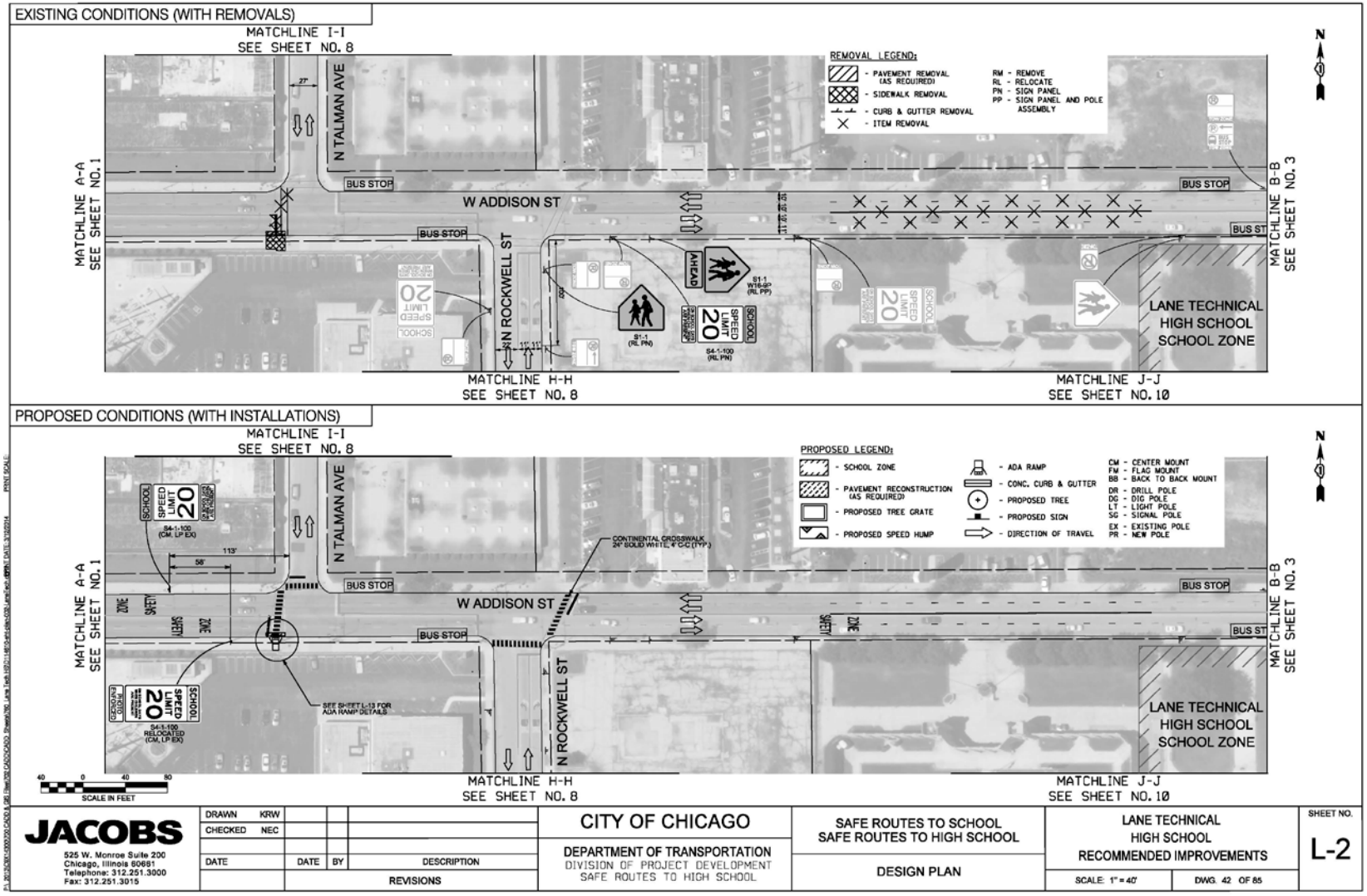

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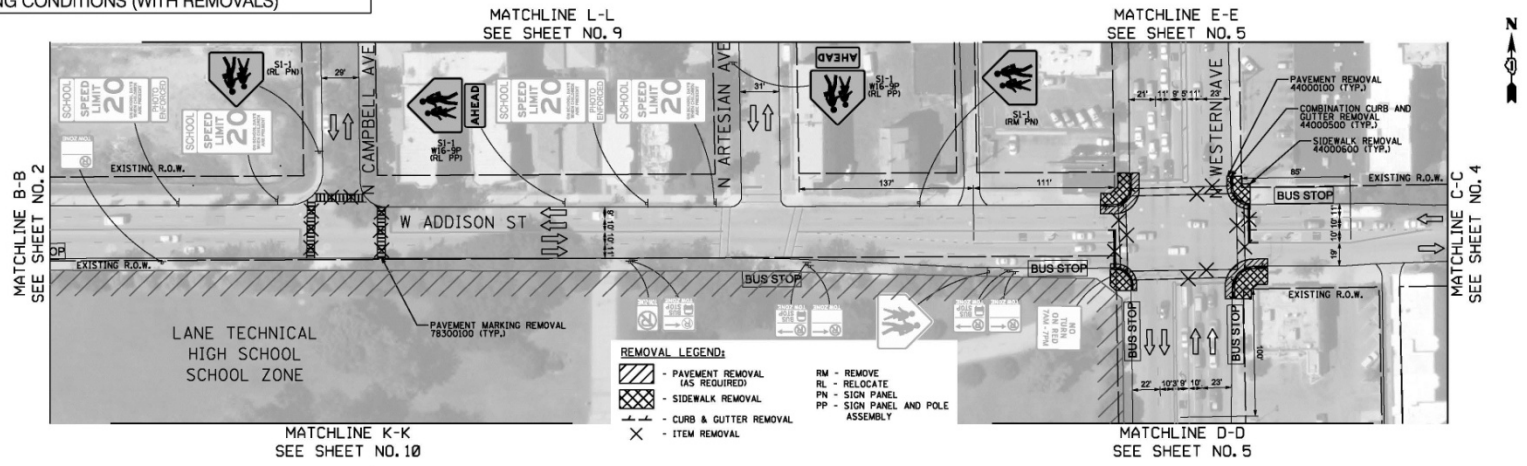

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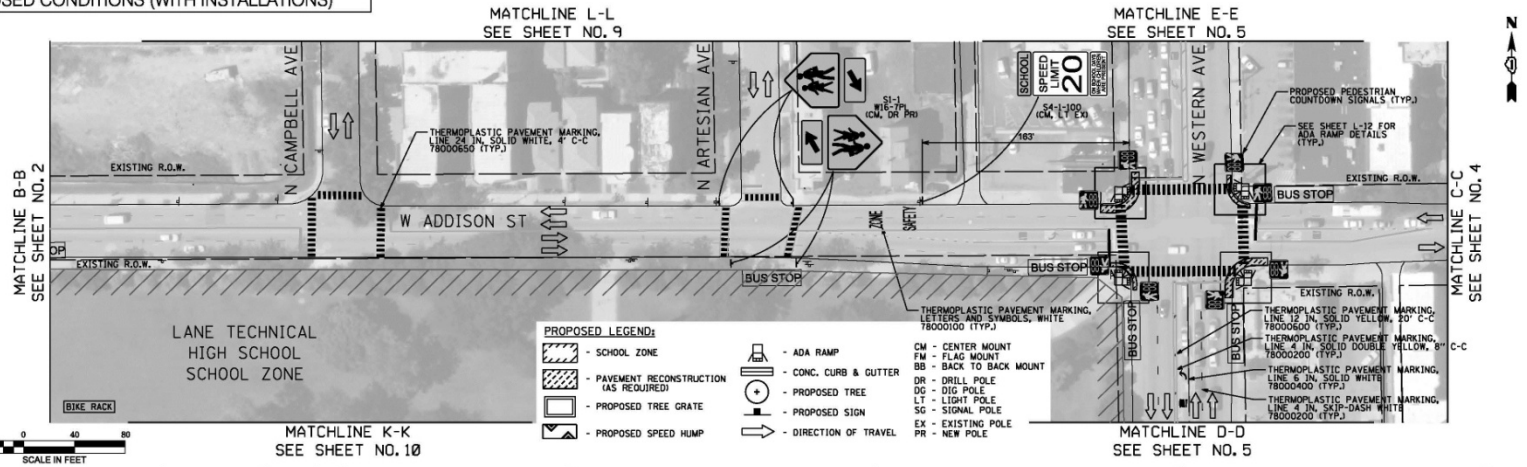

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SAFE ROUTES TO HIGH SCHOOL

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DESIGN PLAN

LANE TECHNICAL
HIGH SCHOOL
RECOMMENDED IMPROVEMENTS

SCALE: 1" = 40'

DWG. 43 OF 85

SHEET NO.
L-3

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OF TRANSPORTATION

EXISTING CONDITIONS (WITH REMOVALS)

N

REMOVAL LEGEND:

- PAVEMENT REMOVAL (AS REQUIRED)
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- ITEM REMOVAL

RM - REMOVE
RL - RELOCATE
PN - SIGN PANEL
PP - SIGN PANEL AND POLE ASSEMBLY

PROPOSED CONDITIONS (WITH INSTALLATIONS)

N

PROPOSED LEGEND:

- SCHOOL ZONE
- PAVEMENT RECONSTRUCTION (AS REQUIRED)
- PROPOSED TREE GRATE
- PROPOSED SPEED HUMP
- ADA RAMP
- CONC. CURB & GUTTER
- PROPOSED TREE
- PROPOSED SIGN
- DIRECTION OF TRAVEL

CM - CENTER MOUNT
FM - FLAG MOUNT
BB - BACK TO BACK MOUNT
DR - DRILL POLE
DG - DIG POLE
LT - LIGHT POLE
SG - SIGNAL POLE
EX - EXISTING POLE
PR - NEW POLE

40 0 40 80
SCALE IN FEET

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EXISTING CONDITIONS (WITH REMOVALS)

N

REMOVAL LEGEND:

- PAVEMENT REMOVAL (AS REQUIRED)
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- ITEM REMOVAL

RM - REMOVE
RL - RELOCATE
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PROPOSED CONDITIONS (WITH INSTALLATIONS)

N

PROPOSED LEGEND:

- SCHOOL ZONE
- PAVEMENT RECONSTRUCTION (AS REQUIRED)
- PROPOSED TREE GRATE
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40 0 40 80
SCALE IN FEET

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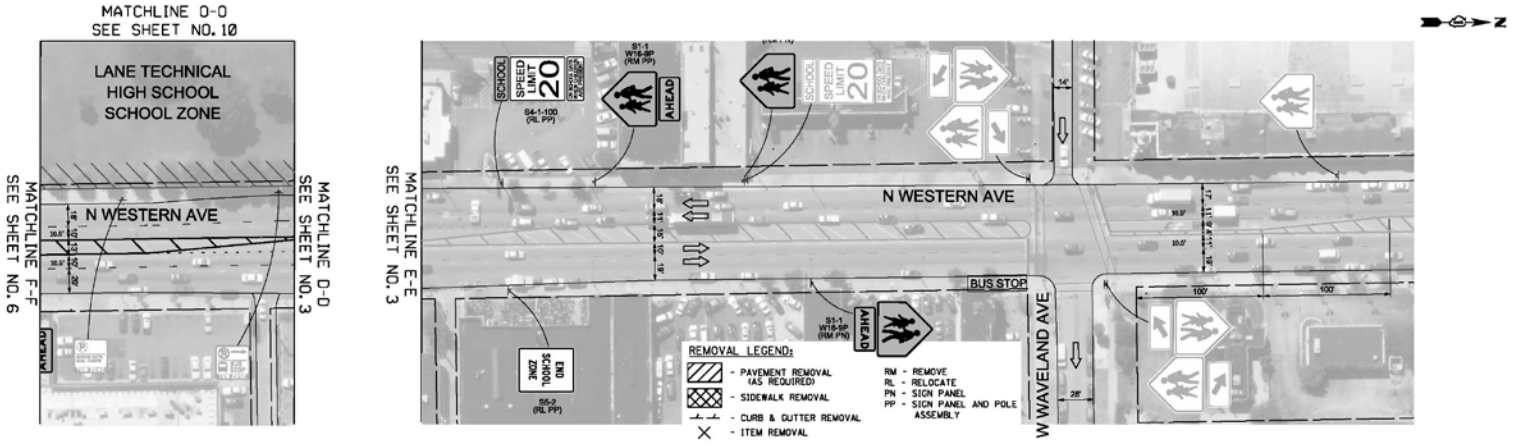
EXISTING CONDITIONS (WITH REMOVALS)



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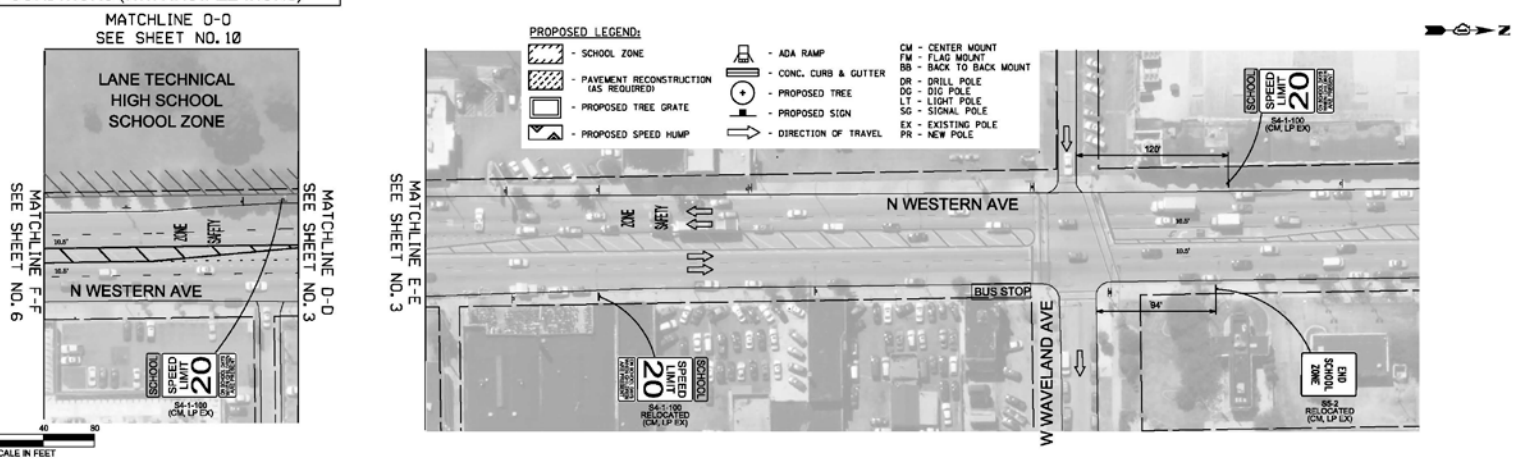

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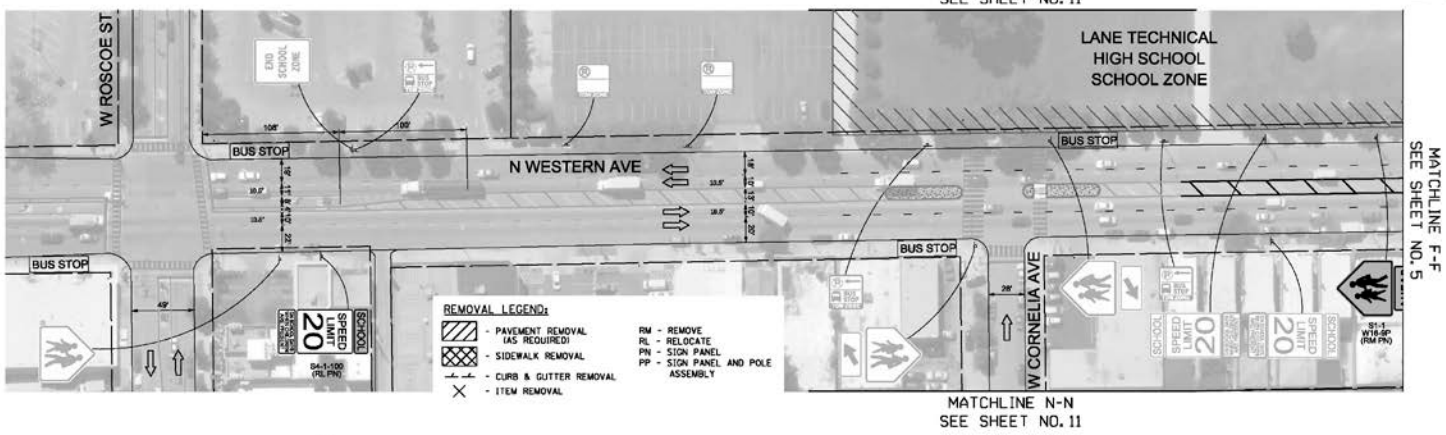
EXISTING CONDITIONS (WITH REMOVALS)



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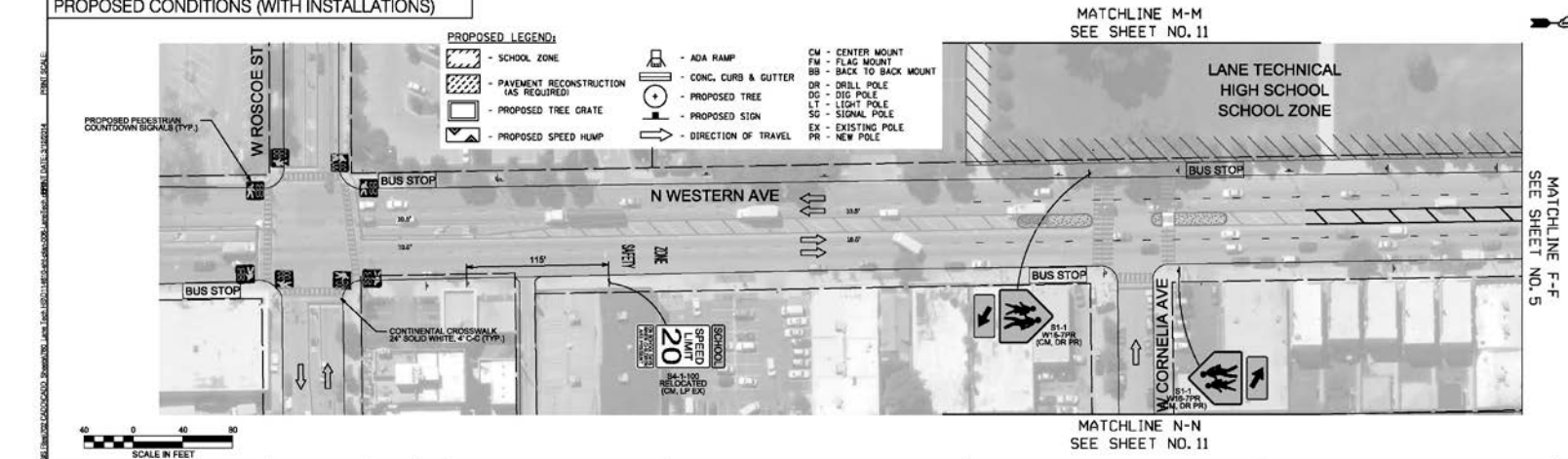

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SAFE ROUTES TO SCHOOL SAFE ROUTES TO HIGH SCHOOL DESIGN PLAN	LANE TECHNICAL HIGH SCHOOL RECOMMENDED IMPROVEMENTS SCALE: 1" = 40' DWG. 46 OF 85	SHEET NO. L-6

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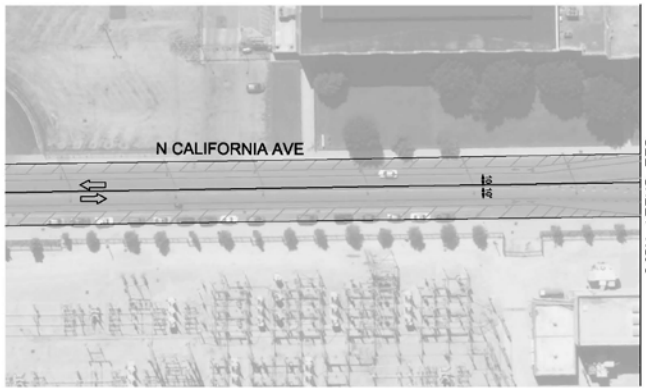
EXISTING CONDITIONS (WITH REMOVALS)



REMOVAL LEGEND:

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- SIDEWALK REMOVAL
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RM - REMOVE
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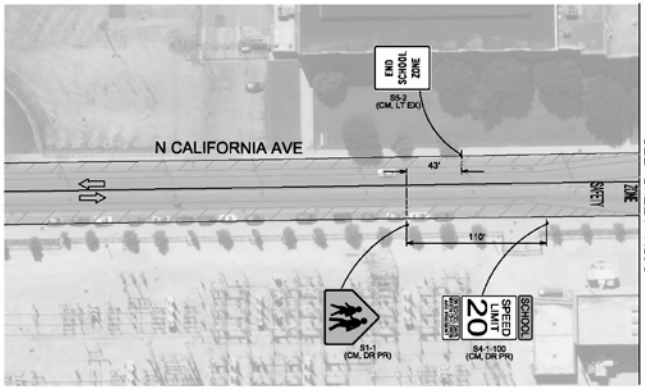
PROPOSED CONDITIONS (WITH INSTALLATIONS)



PROPOSED LEGEND:

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- PAVEMENT RECONSTRUCTION (AS REQUIRED)
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- PROPOSED SPEED HUMP
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40 0 40 80
SCALE IN FEET

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DIVISION OF PROJECT DEVELOPMENT
SAFE ROUTES TO HIGH SCHOOL

SAFE ROUTES TO SCHOOL
SAFE ROUTES TO HIGH SCHOOL

DESIGN PLAN

LANE TECHNICAL
HIGH SCHOOL
RECOMMENDED IMPROVEMENTS

SCALE: 1" = 40'

DWG. 47 OF 85

SHEET NO.
L-7

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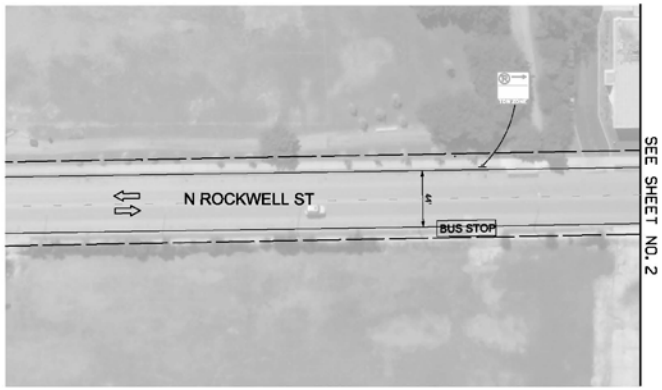
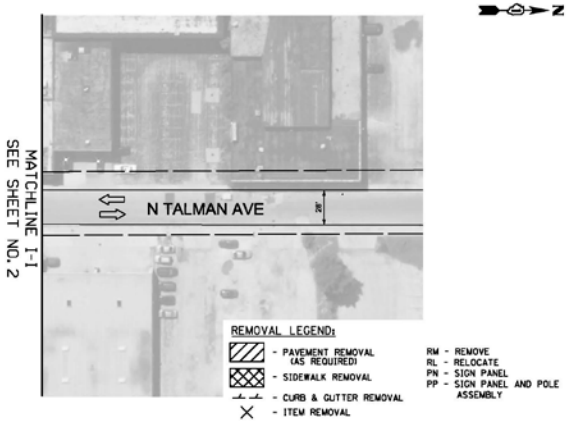
EXISTING CONDITIONS (WITH REMOVALS)





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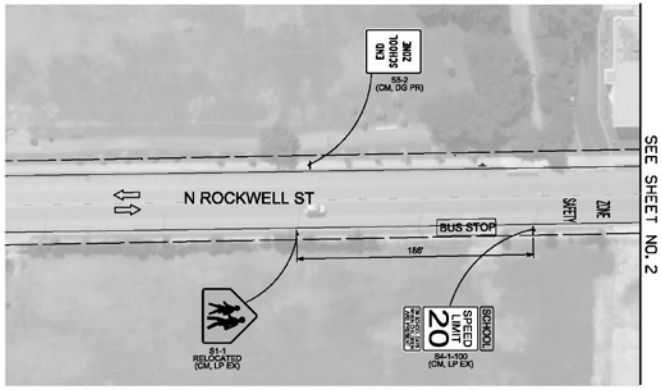

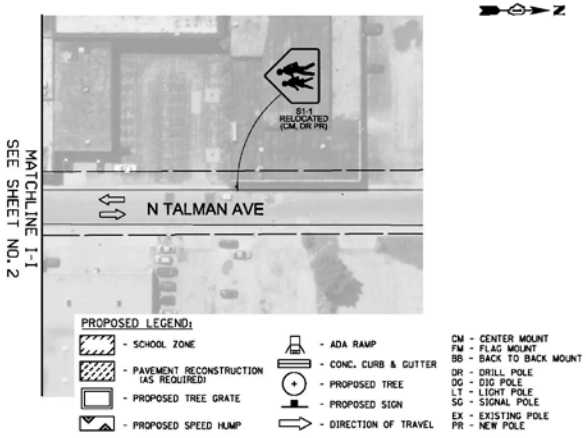

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SCALE IN FEET

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SAFE ROUTES TO HIGH SCHOOL

SAFE ROUTES TO SCHOOL
SAFE ROUTES TO HIGH SCHOOL

DESIGN PLAN

LANE TECHNICAL
HIGH SCHOOL
RECOMMENDED IMPROVEMENTS

SCALE: 1" = 40' | DWG. 48 OF 85

SHEET NO.
L-8

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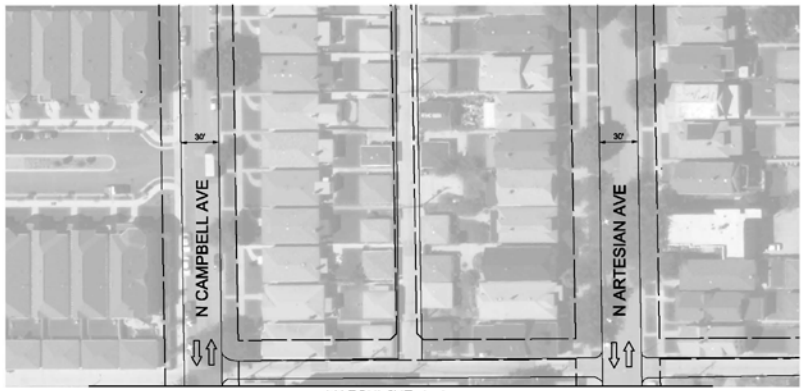
EXISTING CONDITIONS (WITH REMOVALS)



MATCHLINE L-L
SEE SHEET NO. 3

N

REMOVAL LEGEND:

- PAVEMENT REMOVAL (AS REQUIRED)
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- ITEM REMOVAL

RM - REMOVE
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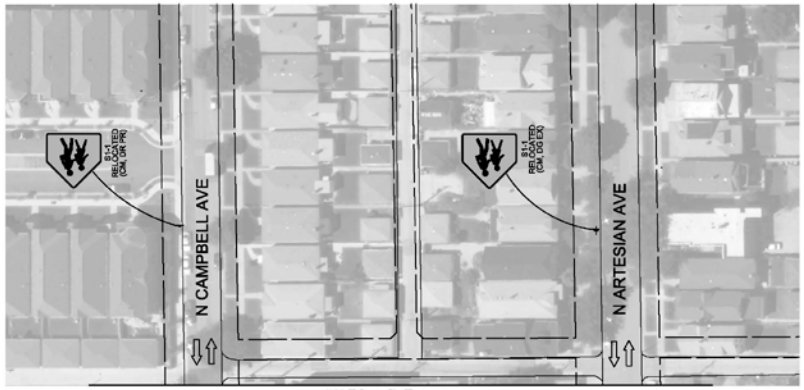
PROPOSED CONDITIONS (WITH INSTALLATIONS)



MATCHLINE L-L
SEE SHEET NO. 3

N

PROPOSED LEGEND:

- SCHOOL ZONE
- PAVEMENT RECONSTRUCTION (AS REQUIRED)
- PROPOSED TREE GRATE
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DIVISION OF PROJECT DEVELOPMENT
SAFE ROUTES TO HIGH SCHOOL

SAFE ROUTES TO SCHOOL
SAFE ROUTES TO HIGH SCHOOL

DESIGN PLAN

LANE TECHNICAL
HIGH SCHOOL
RECOMMENDED IMPROVEMENTS

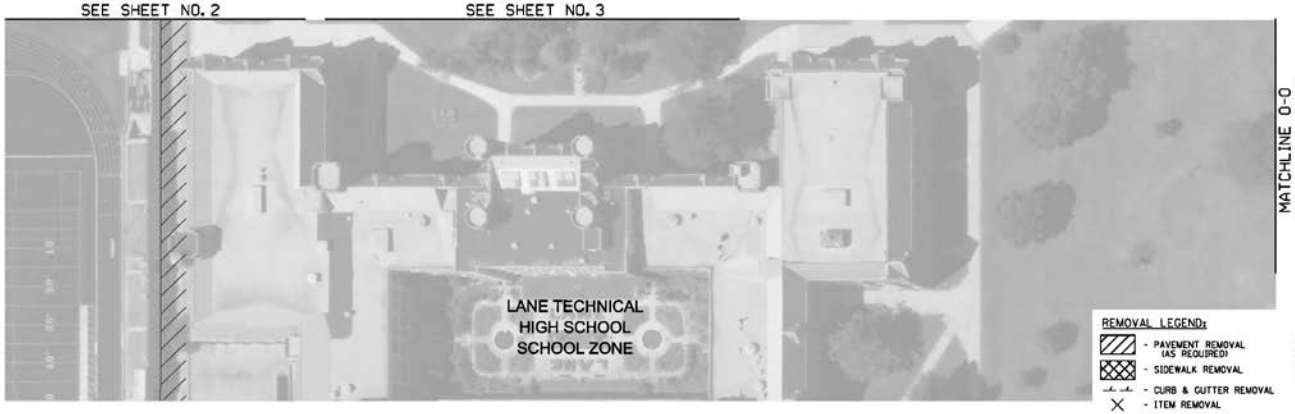
SCALE: 1" = 40'

DWG. 49 OF 85

SHEET NO.
L-9

CDOT
CHICAGO DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS (WITH REMOVALS)



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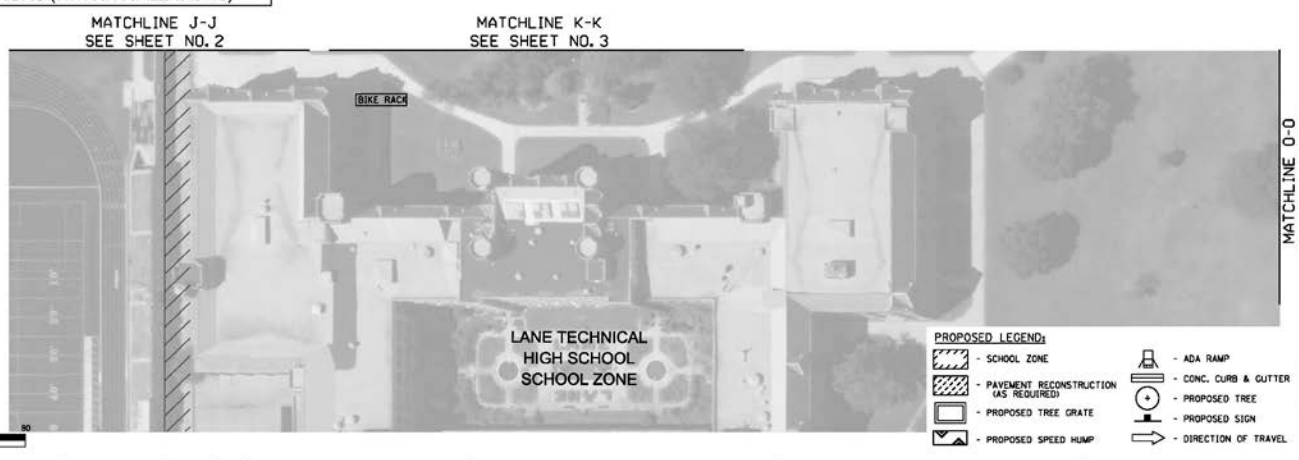

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DEPARTMENT OF TRANSPORTATION
DIVISION OF PROJECT DEVELOPMENT
SAFE ROUTES TO HIGH SCHOOL

SAFE ROUTES TO SCHOOL
SAFE ROUTES TO HIGH SCHOOL

DESIGN PLAN

LANE TECHNICAL
HIGH SCHOOL
RECOMMENDED IMPROVEMENTS

SCALE: 1" = 40'

DWG. 50 OF 65

SHEET NO.
L-10

CDOT
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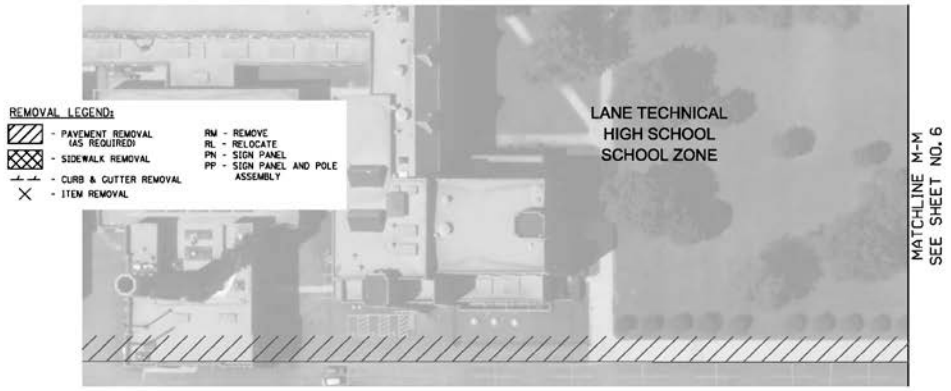
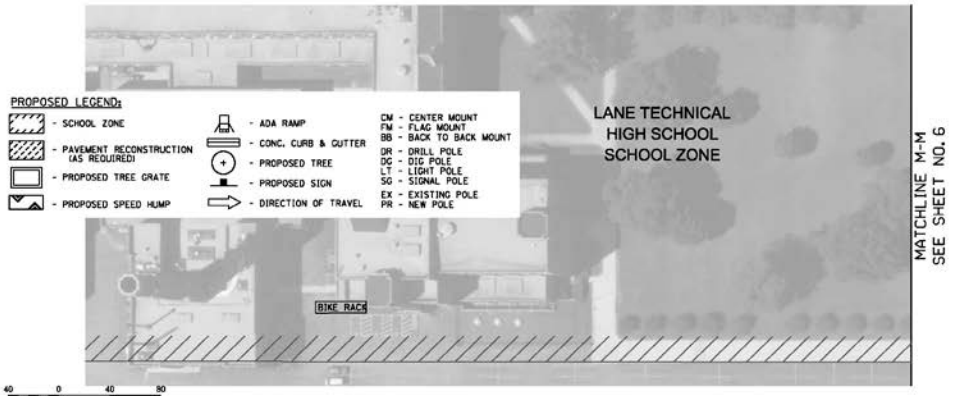
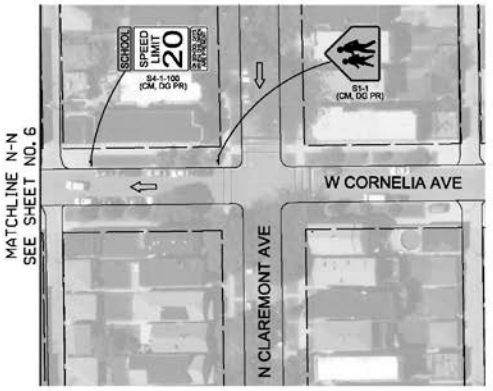
OF TRANSPORTATION

EXISTING CONDITIONS (WITH REMOVALS)


REMOVAL LEGEND:
- PAVEMENT REMOVAL (AS REQUIRED)
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- ITEM REMOVAL
RM - REMOVE
RL - RELOCATE
PN - SIGN PANEL
PP - SIGN PANEL AND POLE ASSEMBLY
LANE TECHNICAL HIGH SCHOOL SCHOOL ZONE
MATCHLINE M-M SEE SHEET NO. 6

PROPOSED CONDITIONS (WITH INSTALLATIONS)


PROPOSED LEGEND:
- SCHOOL ZONE
- PAVEMENT RECONSTRUCTION (AS REQUIRED)
- PROPOSED TREE GRATE
- PROPOSED SPEED HUMP
- ADA RAMP
- CONC. CURB & GUTTER
- PROPOSED TREE
- PROPOSED SIGN
- DIRECTION OF TRAVEL
CM - CENTER MOUNT
FM - FLAG MOUNT
BB - BACK TO BACK MOUNT
DR - DRILL POLE
DC - DIG POLE
LT - LIGHT POLE
SG - SIGNAL POLE
EX - EXISTING POLE
PR - NEW POLE
BIKE RACK
LANE TECHNICAL HIGH SCHOOL SCHOOL ZONE
MATCHLINE M-M SEE SHEET NO. 6
40 0 40 80
SCALE IN FEET



PRINT SCALE:

JACOBS 525 W. Monroe Suite 200 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	DRAWN KRW CHECKED NEC DATE	DATE	BY	DESCRIPTION REVISIONS	CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION DIVISION OF PROJECT DEVELOPMENT SAFE ROUTES TO HIGH SCHOOL	SAFE ROUTES TO SCHOOL SAFE ROUTES TO HIGH SCHOOL DESIGN PLAN	LANE TECHNICAL HIGH SCHOOL RECOMMENDED IMPROVEMENTS SCALE: 1" = 40' DWG. 51 OF 65	SHEET NO. L-11

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Next Steps

- Community meetings
- Environmental review spring 2014
- Review data and implement changes and/or improvements
- Plan and Specification Preparation Summer 2014
- Construction and enhancements

Review Exhibits of Improvements Locations

CDOT
CHICAGO DEPARTMENT OF TRANSPORTATION

Chicago Safe Routes to High School

Please Provide Comments and

Thank You

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